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P R O C E E D I N G S  
OF THE  
AMERICAN PHILOSOPHICAL SOCIETY  
HELD AT PHILADELPHIA FOR PROMOTING USEFUL KNOWLEDGE.

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VOL. XXXVI.

DECEMBER, 1897.

No. 156.

*Stated Meeting, September 3, 1897.*

Vice-President PEPPER in the Chair.

Present, 26 members.

Mr. S. N. Rhoads, a newly elected member, was presented to the Chair, and took his seat.

Acknowledgments of election to membership were read from Mr. Owen Wister, Prof. Orton, Mr. Ely, Mr. Rhoads, Prof. Mabery, Mr. James Bryce, Lord Lister, Prof. Peckham, Dr. Nansen, Prof. Karpinsky and Prof. Tschernyschew.

Correspondence was submitted and donations to the Library were reported—the latter included a very valuable gift of sixty-two volumes and ten pamphlets of the publications of the British Museum, from the Trustees, for which a special vote of thanks was ordered to be transmitted to them.

The announcement of the decease of the following members was made:

Dr. Don Crescencio Carrillo y Ancona, Bishop of Yucatan, on March 19, 1897, æt. 59.

Prof. Johannes Japetus Steenstrup, Professor of History at the University of Copenhagen, on June 20, 1897, æt. 84.

Alfred M. Mayer, Professor of Physics in Stevens Institute of Technology at Hoboken, on July 13, 1897, æt. 61.

Dr. Frederick D. Stone, Librarian of the Historical Society of Pennsylvania, at Philadelphia, on August 12, 1897.

J. Sergeant Price, Esq., Treasurer of the Society, at Cape May, N. J., on August 16, 1897, æt. 66.

A communication for the *Transactions* was presented from Mr. John Van Denburgh, entitled, "Some Experiments with the Saliva of the Gila Monster (*Heloderma suspectum*)."

The following communications were read:

By Dr. N. F. Drake, a paper on "The Geology of the Indian Territory."

Mr. Clarence Alve, "Magnetism in Space."

The Finance Committee presented a report, announcing the death of the Treasurer of the Society, J. Sergeant Price, Esq.

It was ordered "that the Finance Committee be and is hereby authorized to draw upon the funds of this Society for the money necessary to pay the current expenses, and to receive its income during the vacancy in the office of Treasurer of the Society, and the said Committee is authorized to have possession of the financial papers and securities of the Society, until such vacancy shall be filled."

The Society was adjourned by the presiding officer.

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## A GEOLOGICAL RECONNAISSANCE OF THE COAL FIELDS OF THE INDIAN TERRITORY.<sup>1</sup>

BY NOAH FIELDS DRAKE.

(Read September 3, 1897.)

### INTRODUCTION.

During the spring, summer and fall of 1896, the writer spent six months making a geological reconnaissance of the larger part of the Coal Measures and adjacent formations of the Indian and Oklahoma Territories. The best maps that could then be had of the region were exceedingly inaccurate. In connection with geologic observations, sketch maps were therefore made of areas that were especially important. Nearly all the area south and east of the Canadian river, shown on the accompanying map, was sketched

<sup>1</sup> A thesis for the degree of Doctor of Philosophy, presented to the Department of Geology of the Leland Stanford, Jr., University, May, 1897.